

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method for manufacturing a transparent silica glass luminescent material comprising:

a pressurizing process for pressure molding silica fine particles and forming a pressure molding; and

a baking process for baking the pressure molding under a temperature condition that a structural defect is generated and held without being relaxed.

2. (Original) A method for manufacturing a transparent silica glass luminescent material comprising:

a pressurizing process for pressure molding silica fine particles and forming a pressure molding; and

a baking process for baking the pressure molding at a temperature in a range of 500C° to 1400C° and in a time range of 100 minutes to 300 hours.

3. A method for manufacturing a transparent silica glass luminescent material comprising:

a pressurizing process for pressure molding silica fine particles and forming a pressure molding; and

a baking process for baking the pressure molding at a temperature in a range of 900C° to 1000C° and in a time range of 120 to 200 hours.

4. (Currently Amended) A method for manufacturing a transparent silica glass luminescent material according to ~~claims 1 to 3~~ claim 1, wherein the silica fine particle is fumed silica which is synthesized by a vapor phase method and is a high-purity nano-size silica fine particle having a particle size in a range of 1 nm to 100 nm.

5. (Currently Amended) A method for manufacturing a transparent silica glass luminescent material according to ~~claims 1 to 4~~ claim 1, wherein silica fine particles are mixed with inorganic material particles having semi-conductivity and/or conductivity to be pressure molded and baked.

6. (Original) A method for manufacturing a transparent silica glass luminescent material according to claim 4, further comprising a pre-heat treatment process for subjecting fumed silica to heat treatment at 1000C° and for 2 hours before the pressurizing process for forming the pressure molding.

7. (Original) A silica glass luminescent material having an emission peak in a wavelength of 500 nm to 520 nm and a broad emission property, in which a full width at half maximum (FWHM) is 200 nm to 300 nm, in a spectrum of photoluminescence (PL).

8. (Original) A silica glass luminescent material having a first emission peak in a wavelength of 400 nm to 520 nm, having a second emission peak in a wavelength of 640 nm to 660 nm and indicating a broad emission, in which a wavelength ranges from 300 nm to 800 nm in a wavelength range of visible light, in a spectrum of photoluminescence (PL).

9. (Currently Amended) A silica glass luminescent material, wherein the silica glass luminescent material according to ~~any one of claims 1 to 8~~ claim 1 has transparency that a visible light permeation rate at a wavelength of 600 nm is not less than 75%.

10. (Currently Amended) A light emitting device, wherein a transparent silica glass luminescent material obtained by a manufacturing method according to ~~any one of claims 1 to 6~~ claim 1 or a silica glass luminescent material according to ~~any one of claims 7 to 9~~ claim 7 is employed as a fluorescent substance.

11. (New) A light emitting device, wherein a silica glass luminescent material according to claim 7 is employed as a fluorescent substance.